

SUBSTATION AND COMMUNICATION TECHNICIAN

PURPOSE AND NATURE OF WORK

This is technical electrical and electronic work on an advanced level. Work involves maintaining, testing, repairing, adjusting, and calibrating sophisticated relays, meters, communications equipment, and similar apparatus which are not maintained by the Electric Meter employees. Work is performed primarily in substations. Incumbents of the class are required to work around high voltage in varying weather conditions, and be on 24-hour call. General direction is received from a Substation and Communication Foreman.

ILLUSTRATIVE EXAMPLES OF WORK (Note: These examples are intended only to illustrate the various types of work performed by incumbents in this class. All of the duties performed by any one incumbent may not be listed, nor does any incumbent necessarily perform all of these duties.)

Maintains, tests, repairs, adjusts, and calibrates meters, relays, microwave equipment, and associated supervisory control and communication equipment. Inspects, maintains and repairs substation high voltage circuit breakers, power transformers and associated protective relaying equipment. Reads and interprets blueprints and wiring diagrams of existing protective, control, supervisory and related equipment; makes repairs and alterations to the equipment accordingly. Makes voltage, current, and continuity measurements; verifies the correct operations of all phases of protective, control, supervisory, and metering schemes. Assists engineers with the design of substation and communications equipment.
Performs related work as required.

NECESSARY KNOWLEDGES, ABILITIES, AND SKILLS

Considerable knowledge of standard practices, materials, tools, and equipment of the electrical and electronic trades.

Considerable knowledge of the practices and principles associated with protective relaying and communication equipment.

Considerable knowledge of the occupational hazards and safety practices in electrical and electronic work.

Ability to work from blueprints, wiring diagrams, and equipment specifications.

Ability to understand and follow complex oral and written instructions.

Ability to express ideas clearly and concisely.

Ability to supervise the work of subordinates.

Skill in use and care of materials, tools, and equipment used in the maintenance, testing, calibration, and repair of electrical and electronic equipment such as meters, relays, etc.

DESIRABLE TRAINING AND EXPERIENCE

Graduation from high school supplemented by advanced course work in electrical and electronic equipment maintenance and repair. Considerable experience in the testing, maintenance, and repair of electrical and electronic equipment; or any equivalent combination of training and experience.